

AMENDMENTS

In the Specification:

Please amend the first paragraph on Page 1 under “Cross Reference to Related Applications” as follows:

This application is a continuation in part of U.S. Application Serial No. 10/386,980 filed March 12, 2003, which is a continuation in part of and of U.S. Application Serial No. 10/339,264 filed January 9, 2003.

Please amend the full paragraph bridging pages 3 and 4 as follows:

Referring now to FIG. 1, there is illustrated therein a generally rectangular-shaped, horizontal, substantially planar or flat, fixed panel 10 mounting an array 12 of staggered, offset UV-LED chips 14. The UV-LED chips 14 are arranged in staggered rows and mounted to the panel 10 such that the UV-LED chips 14 in one row are adjacent spaces between UV-LED chips 14 in an adjacent row as described in greater detail in parent application serial number 10/386,980, the disclosure of which is incorporated herein by reference. It will be understood that the array 12 shown on the upper side of the panel 10 is for the convenience of showing the array 12 and that actually, the array 12 of UV-LED chips 14 are mounted on the underside of the panel 10. The array 12 of UV-LED chips 14 is better shown in FIG. 2. The panel 10 can be supported by an upright vertically disposed support structure in the form of a cantilevered base 15 (FIG. 2), so that the panel 10 can be positioned over a generally disk-shaped product 16, or, simply a disk 16. The arrow 18 in FIG. 1 indicates the direction of rotation of the disk 16 in a UV-LED chip apparatus 20 including the panel 10 for curing UV photo initiators on or in the disk 16.

Please amend the last (the 4th) full paragraph on page 4 as follows:

Also shown in FIG. 2, is a dispenser 30 for dispensing a ~~liquid 32~~ liquid 38 having one or more UV photo initiators therein onto the upper surface of the rotating disk 16. The dispenser 30 is preferably positioned above the disk 16 and can have a dispensing point 34 near the center of the disk 16 so that ~~that liquid 32~~ liquid 38 dispensed can flow by centrifugal force radially outwardly to a periphery of the disk 16 as the disk 16 rotates. At the same time, the UV curable liquid coated portion of the disk 16 passing beneath the array 12 of UV-LED chips can be cured, polymerized and solidified, by the UV light emitted from the UV-LED chips 14.

Please amend the 1st and 2nd full paragraphs on page 5 as follows:

In FIG. 3, there is illustrated another UV-LED chip apparatus 40 for curing UV photo initiators in or on a stationary or fixed disk 16. As shown, the apparatus 40 includes a cross-shaped or + shaped structure 42 including four rotatable, generally horizontal, substantially flat or planar portions or panels 44, 46, 48 and 50, each mounting an array 52 of UV-LED ~~chips 54~~. chips 54 and a center panel portion 56. In it's simplest form, the structure 40 can include at least one elongated panel 44, 46, 48 or 50. The UV LED chips 54 are preferably arranged in an offset staggered array on at least one panel 44, 46, 48 or 50. Also, while the arrays 52 are shown in FIG. 3 on the upper side of each panel portion 44-50, it will be understood that this is only for the convenience of showing the arrays 52 and that actually, the arrays 52 are mounted on the underside of each panel portion 44-50, as better shown in FIG. 4.

~~In the apparatus 40 of FIG. 4, a center panel portion 56 that is~~ In the apparatus 40 of FIGS. 3 or 4, the center panel portion 56 is shown integral or connected to the panel portions 44-50 having the four arrays 52 of UV-LED ~~chips, is chips, and is~~ chips, is chips, and is mounted to a shaft 58 at one end of a motor 60, so that the panel portions 44-50 and the arrays 52 can be rotated relative to the disk 16. It will be understood that a suitable support can be provided for the disk 16, such as a pedestal (not shown).

Please insert the following paragraphs on page 6 after the 3rd full paragraph on page 6:

UV LED chips having different wavelength emissions can be positioned in a random, mixed manner or in sequential rows of the staggered rows in an array of rows of UV LED chips on the panel. For example, in a first row, the first UV-LED chip can emit light at 390 nm, the next UV LED chip can emit UV light at 370 nm and the following UV LED chip can emit UV light at 415 nm, and so on, repeating this pattern throughout the row. The next row, and subsequent rows, can have the same pattern or a different pattern.

Alternatively, all the UV LED chips in the first row can emit light at 390 nm, all the UV LED chips in the second row can emit light at 370 nm and all the UV LED chips in the succeeding row can emit light at 415 nm and this pattern can be repeated for the remaining rows. The pattern or order also can be changed, e.g., 370 nm, 390 nm, and 415 nm.

Another variation would be a random mixture of UV LED chips which emit light at 415 nm, 390 nm and 370 nm or other wavelengths as such UV wavelength emitting diodes become available, e.g., 350 nm, 400 nm and 420 nm.